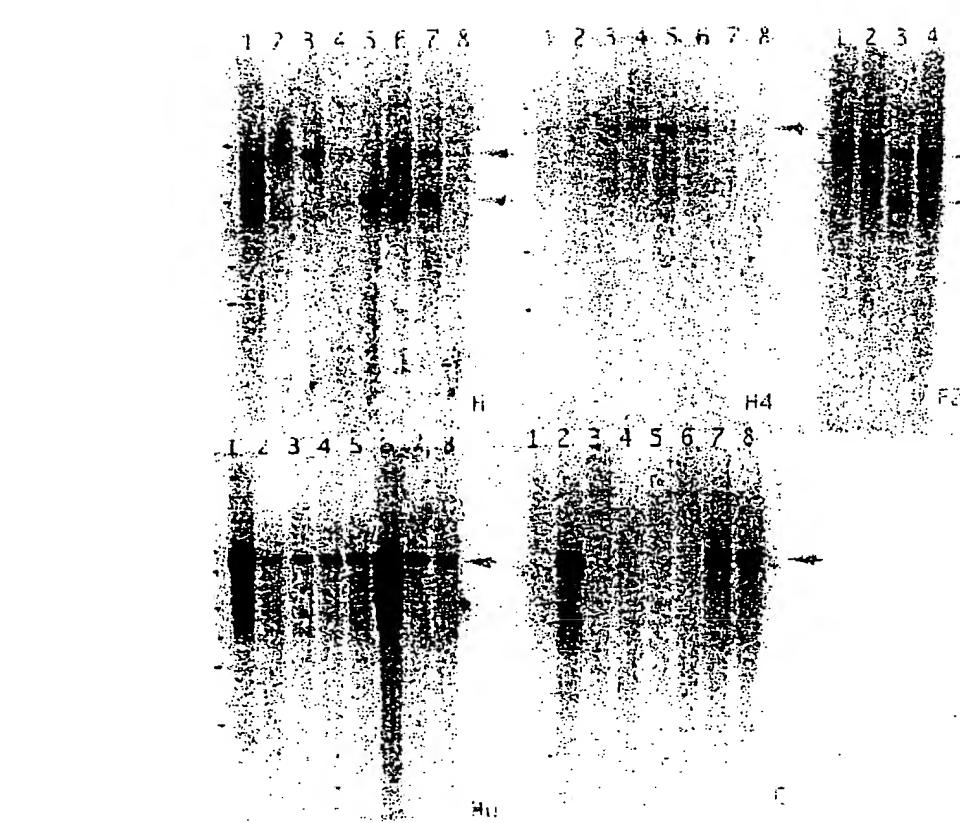


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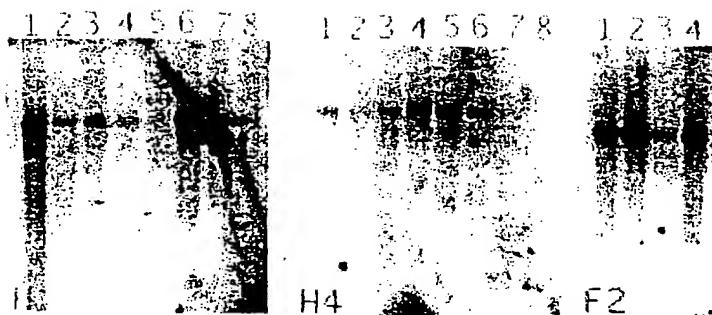
~~Figure 5~~ Fig. 6



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~~Figure 6~~ Fig. 5

"962-101410037"



848 FISLLKTAKMTVKLTIHAEAPDSQAVPSAAGAASGEKKNNSQSLMPQSG 897
 ||||||| |||| : |||| ||||. ||||:|||. ||
 2 FISLLKTAKATVKLIVRAENPACPAVSSAVTSGERKDNSQTPAVP... 48

898 SPEPESIRNTSRSSTPAIFASDPATCPIPGCETTIEISKGRTGLGLSIV 947
 .||: ||| .|||||||:|||||||:||||||| :|||.|||||||
 49 APDLEPIPSTSRSSTPAVFASDPATCPIPGCETTIGVSKGQTGLGLSIV 98

948 GGSDTLLGAFIIHEVYEEGAACKDGRLWAGDQILEVNGIDLRKATHDEAI 997
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
 99 GGSDTLLGAIIEEEVYEEGAACKDGRLWAGDQILEVNGIDLRKATHDEAI 148

998 NVLRQTPQRVRVRLTYRDEAPYKEEEVCDTLTIE..LQKKPGKGLGLSIVG 1045
 ||||||| .|||||||:|||||||:||||| ||| |||:|||||||
 149 NVLRQTPQRVRVTLTYRDEAPYKEEDVCDFTIELQLQKRPKGGLGLSIVG 198

1046 KRNDTGVFVSDIVKGGIADPDGRLIQGDQILLVNGEDVRNASQEAVAALL 1095
 ||||||| ||||||| ||||.||||||:|||||.||.|||||||
 199 KRNDTGVFVSDIVKGGIADADGRLMQGDQILMVNGEDVRHATQEAVAALL 248

1096 KCSLGTVTLEVGRIKAGPFHSERRPSQTSQLSEGSLSFTFPLSGSSTSE 1145
 ||||| |||||||:||| ||||||| .||||| ||||| ||||| .|||
 249 KCSLGAVTLEVGRVKAAPFHSSRPSQSSQVSESSLSSFTPPLSGINTSE 298

1146 SLESSKKNALASEIQQLRTVEMKKGPTDSLGIAGGVGSPLGDVPIFI 1195
 ||||.||||||| ||||.||||| ||||:||||||| |||||
 299 SLESNSKKNALASEIQQLRTVEIKKGPADSLGLSIAGGVGSPLGDVPIFI 348

1196 AMMHPTGVAAQTQKLRVGDRIVTICGTSTEGMHTQAVNLLKNASGSIEM 1245
 ||||| ||||||| |||||:|||||:|||||||:|||||||:
 349 AMMHPNGVAAQTQKLRVGDRIVTICGTSTDGMHTQAVNLMKNASGSIEV 398

1246 QVVAGGDVSVTGHHQEPASSLSFTGLTSIFQDDLGPPQCKSITLER 1295
 ||||||| ||||| ||| .| .|||||.||| ||||| | .|||:
 399 QVVAGGDVSVTGHQQELANPCLAFTGLTSSSIFPDOLGPPQSKTITLDR 448

1296 GPDGLGFSIVGGYGSIPHGDLPYVKTFAKGAAEDGRLKRGDQIAVNG 1345
 ||||||| ||||||| ||||||| .||||||| .|||||||
 449 GPDGLGFSIVGGYGSIPHGDLPYVKTFAKGAAEDGRLKRGDQIAVNG 498

1346 QSLEGVTHEEAVAILKRTKGTVTLMLS 1373
 ||||||| ||||||| |||||||
 499 QSLEGVTHEEAVAILKRTKGTVTLMLS 526

FIG. 1

100 1 5
A 0000000000000000

921 ATCPIIPGCETTIEISKGRTGLGLSIVGGSDTLLGAFIIHEVYEEGAACK 970
1 ATCPIIPGCETTIEISKGRTGLGLSIVGGSDTLLGAIIIHEVYEEGAACK 50

971 DGRLWAGDQILEVNGIDLRKATHDEAINVLRQTPQRVRLTLYRDEAPYKE 1020
51 DGRLWAGDQILEVNGIDLRKATHDEAINVLRQTPQRVRLTLYRDEAPYKE 100

1021 EEVCDTLTIELQKKPGKGLGLSIVGKRNDTGVFVSDIVKGGIADPDGRLI 1070
101 EEVCDTLTIELQKKPGKGLGLSIVGKRNDTGVFVSDIVKGGIADADGRML 150

1071 QGDQILLVNGEDVRNASQEAVAALLKCSLGTVTLEVGRIGPFSERRP 1120
151 QGDQILMVNGEDVRNATQEAVAALLKCSLGTVTLEVGRIGPFSERRP 200

1121 SQTSQVSE GSLSSFTFPLSGSSTSESLESSKKNALASEIQGLRTVEMKK 1170
201 SQSSQVSE GSLSSFTFPLSGSSTSESLESSKKNALASEIQGLRTVEMKK 250

1171 GPTDSLGISIAGGVGSPLGDVPIFIAMMPTGVAAQQTQLRVGDRIVTIC 1220
251 GPTDSLGISIAGGVGSPLGDVPIFIAMMPTGVAAQQTQLRVGDRIVTIC 300

1221 GTSTEGMTHTQAVNLLKNASGSIEMQVVAGGDVSVVTGHHQEPASSLSF 1270
301 GTSTEGMTHTQAVNLLKNASGSIEMQVVAGGDVSVVTGHHQEPASSLSF 350

1271 TGLTSTSIFQDDLGPPQCKSITLERGPDGLGFSIVGGYGSPHGDLPYVK 1320
351 TGLTSSSI FQDDLGPPQCKSITLERGPDGLGFSIVGGYGSPHGDLPYVK 400

1321 TVFAKGAASEDGRLKRGDQIIAVNGQSLEGVTHEEAVAILKRTKGTVTLM 1370
401 TVFAKGAASEDGRLKRGDQIIAVNGQSLEGVTHEEAVAILKRTKGTVTLM 450

1371 VLS 1373
451 VLS 453

FIG. 2

1 MVCCRRTVPPTTQSELDSDLCDIELTEKPHVLDLGEFIGSETEDPVLM 50
 :||||| :||| :||||| :||||| :||||| :||||| :||||| :||||| :|||||
 620 MVCCRRTVPPTALSEVSDLDIHDLELTKEPHIDLGFIGSETEDPVLM 669

51 TDAGSOTEEQAPLAMWEAGIQHIELEKGSKGLGFSLIDYQDPIPDASTV 100
 .| .| :| :||||| :||||| :||||| :||||| :||||| :||||| :|||||
 670 SDVDQNAEETQTPPLAMWEAGIQATEIELEKGSRGLGFSLIDYQDPIPDANTV 719

101 IIIRSLVPGGIAEKDGRLLPGDRRLMFVNDYWLLENSSLEEAEALKGAPS 150
 :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :|||||
 720 IVIRSLVPGGIAEKDGRLLPGDRRLMFVNDYWLLENSTLEEAEALKGAPS 769

151 TWRIGVAKPLPSPEEGVSAKEDSFYLPPHISCEAAGLADKPLFRADAL 200
 :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :|||||
 770 MVRIGVAKPLPSPEEGVSAKEDTFLCSPHICKEMGLSDKAFLRADAL 819

201 VGTINDADLVDESTFESPYSPENDSIYSTQASILSLHGSSCGDGLNYGSSL 250
 :| :| :| ||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
 820 IDTPDAESAESRFESQFSQSPDNDSVYSTQASILSLHDGACSDGMNYGSSL 869

251 PSSPPKDVNCDPVLIDLHMSLEELYTQNLLERODENTPSVIDSMGPAS 300
 :||||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
 870 PSSPPKDV.TNSSDLVGLHLISLEELYTQNLLQRQHAGSPPTDMSPAATS 918

301 GFTINDYTPANAEQQYECENTIWTESTHLPSEVISSAELPSVLPSAGK 350
 |||:||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||

919 GFTVSDYTPANAVEQKYECANTVAWTPSQLPSG.LSTTELAPALPAVAK 967

351 GSEHILLEQSSLACMAECVMLQNSKESFERTINIAGNSSLGMTVSANKD 400
 :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|

968 ...YLTEQSSLVSDAESVTQSMSQEAFERTVIAKGSSSLGMTVSANKD 1014

401 GLGIVIVRSIIHGGAIISRDGRAIGDCJLSINEESTISVTNAQARAMLRRH 450
 |||.||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :|||
 1015 GLGVIVRSIIHGGAIISRDGRAIVGDCJLSINEESTISVTNAQARAMLRRH 1064

451 SLIGPDIKITTYVPAEHLEEFKISLGQOQSGRMIALDIFSSYTGRDIPELPE 500
 :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :|||
 1065 SLIGPDIKITTYVPAEHLEEFRVSFGQOQAGGIMALDIFSSYTGRDIPELPE 1114

501 REEGEGEESELQNTAYSMWNQPRRVELWREPSKSILGISIVGGRGMGSRLS 550
 :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :|||
 1115 REEGEGEESELQNAAYSSWSQPRRVELWREPSKSILGISIVGGRGMGSRLS 1164

551 AGEVMRGIFIKHVLEDSPAGKNGTLKPGDRIVE..... 583
 :||||| :||||| :||||| :||||| :||||| :||||| :||||| :|||
 1165 AGEVMRGIFIKHVLEDSPAGKNGTLKPGDRIVEVDGMHLDASHEQAVEA 1214

584 ...APSQSESEPEKAPLCSPVPPPPSAFAEMGSDHTQSSASKISQDVDEKE 630
 :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||| :||| :|||
 1265 SDIKAPSQSESESEKATLCSVPSSSSPVSFSEMSDDYQPSATTVAEDEDKE 1314

631 DEFGYSWKNIQERYGTLTGELEMIELEKGHSGLGLSLAGNKDRSRMSVF 1 680
 :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||| :|||
 1315 DEFGYSWKNIQERYGTLTGQLHMELEKGHSGLGLSLAGNKDRTRMSVF 1 1364

681 VGIOPNGAAGKDGRLQIADELLEINGQILYGRSHQNASSIIKCAPSKVKJ 730
 :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||| :|||
 1365 VGIOPNGAAGKDGRLQIADELLEINGQILYGRSHQNASSIIKCAPSKVKJ 1414

731 IFIRKDAWNQWAVCPGNAAVEPLPSISENLQNKEITEPTVITTSDAAVDLSS 780
 :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||| :|||
 1415 IFIRKDAWNQWAVCPGSAADPLPSSESQPKVEPSITTSASAVDLSS 1464

FIG. 4

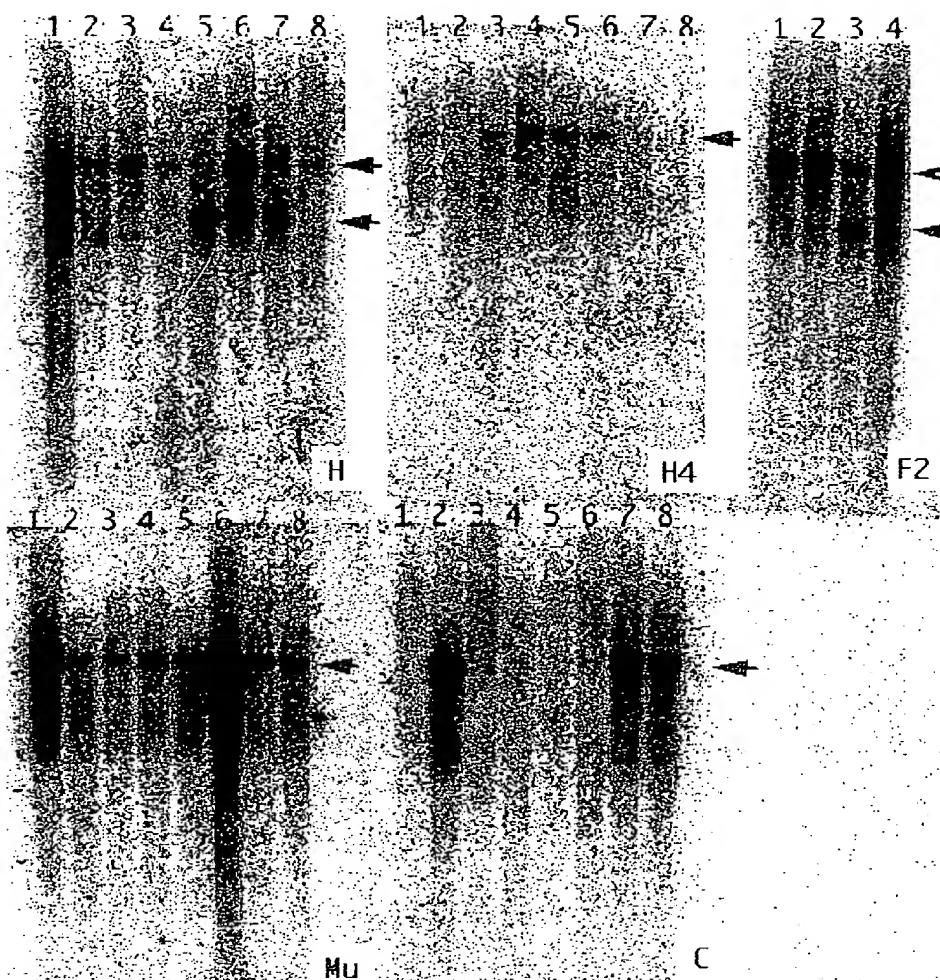


FIG. 6

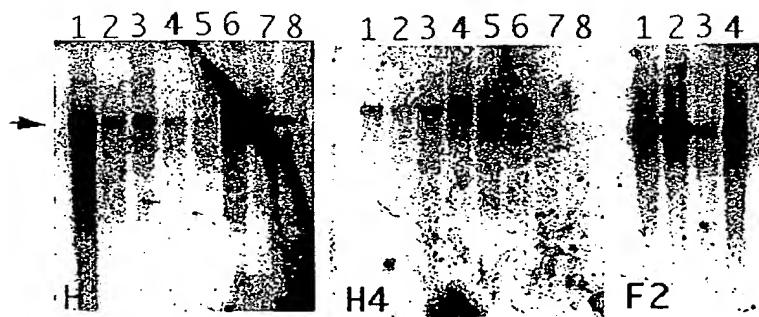


FIG. 5

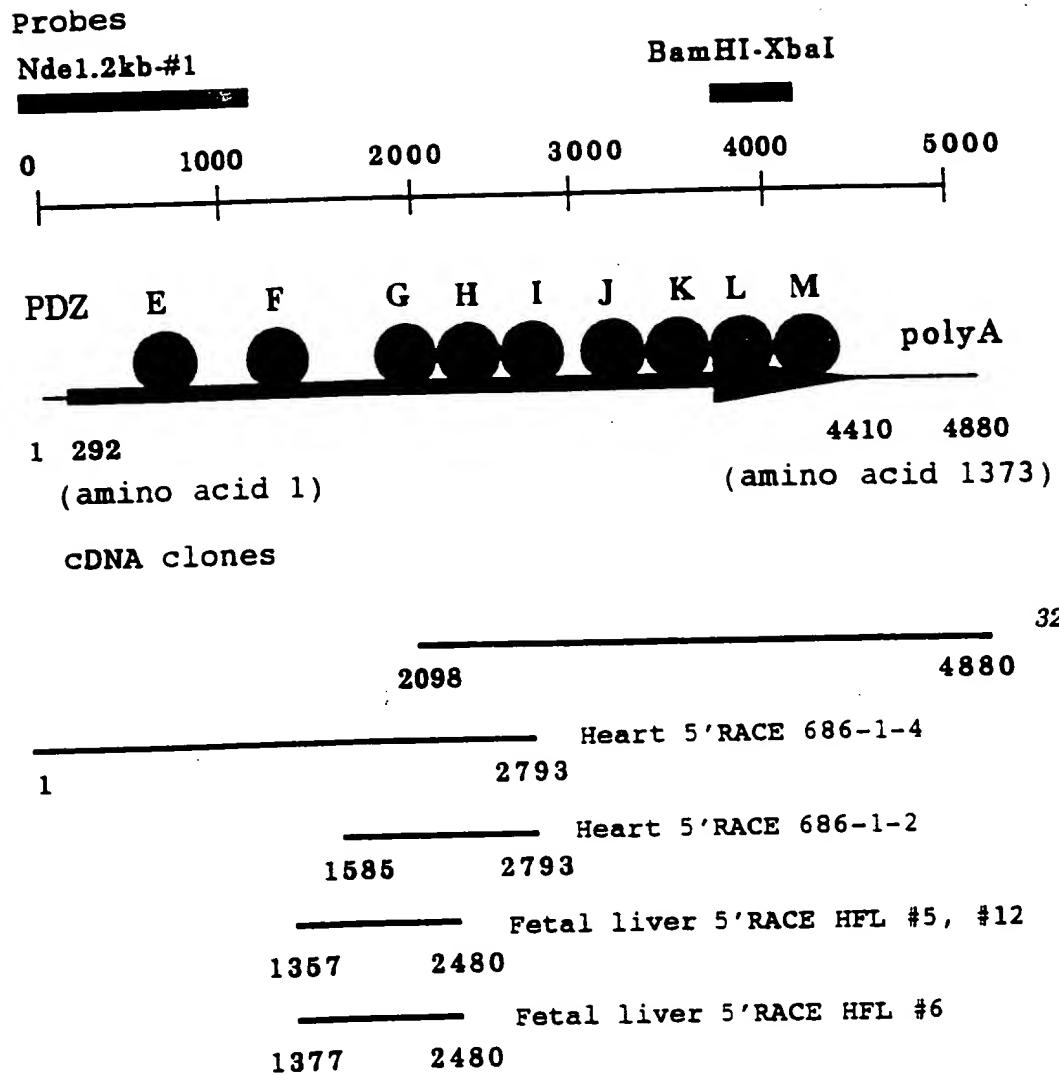


FIG. 7

50

PDZ-E	AGIQHIELE.	KGSKGLGFSI	LDYQD.....	PIDPASTVII	IRSLVPGGIA
PDZ-F	QNVSKESFER	TINIAKGNSS	LGMTV.....	SANKDGLGMI	VRSIIHGGAI
PDZ-G	NQPRRVELWR	EPSKSLGISI	VGGRGMGSRL	SNGEVMRGIF	IKHVLEDSPA
PDZ-H	GELHMIELEK	GHS.GLGLSL	AGNKD.....	RSR.M..SVF	IVGIDPNGAA
PDZ-I	KNVQHLELPK	DQG.GLGIAI	SEEDTLSGVI	IKSLTEHGVA
PDZ-J	GCETTIEISK	GRT.GLGLSI	VGGSD.....	TLL.G..AFI	IHEVYEEGAA
PDZ-K	CDTLTIELQK	KPGKGLGLSI	VGKRN.....DTGVF	VSDIVKGGA
PDZ-L	QGLRTVEMKK	GPTDSLGISI	AGGVG.....	SPL.GDVPIF	IAMMHPTGVA
PDZ-M	PQCKSITLER	GP.DGLGFSI	VGGYG.....	SPH.GDLPIY	VKTVFAGAA

51

96

PDZ-E	EKDGRLLPGD	RLMFVNDVNL	ENSSLEEAVE	ALKAPSGTV	RIGVAK
PDZ-F	SRDGRIAIGD	CILSINEEST	ISVTNAQARA	MLRRHSLIGP	DIKITY
PDZ-G	GKNGTLKPGD	RIVEAPSQSE	SEPEKAPLCS	VPPPPPSAFA	EMGSDH
PDZ-H	GKDGRQLQIAD	ELLEINGQIL	YGRSHQNASS	IIKCAP.SKV	KIIFIR
PDZ-I	ATDGRLKVGD	QILAVDDEIV	VGYPIEKFIS	LLKTTAKM.TV	KLTIHA
PDZ-J	CKDGRLWAGD	QILEVNGIDL	RKATHDEAIN	VLRQTP.QRV	RLTLYR
PDZ-K	DPDGRLIQGD	QILLVNGEDV	RNAS.QEAVA	ALLKCSLGTV	TLEVGR
PDZ-L	AQTQKLRVGD	RIVTICGTST	EGMTHTQAVN	LLKNAS.GSI	EMQVVA
PDZ-M	SEDGRLKRGD	QIIAVNGSQL	EGVTHEEAVA	ILKRTK.GTV	TLMVLS

FIG. 8

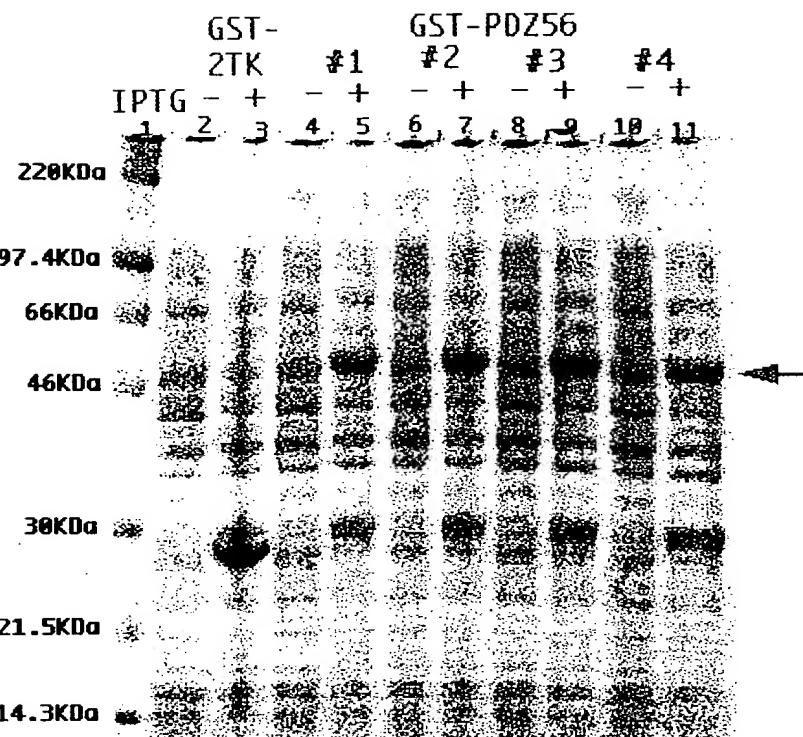


FIG. 9

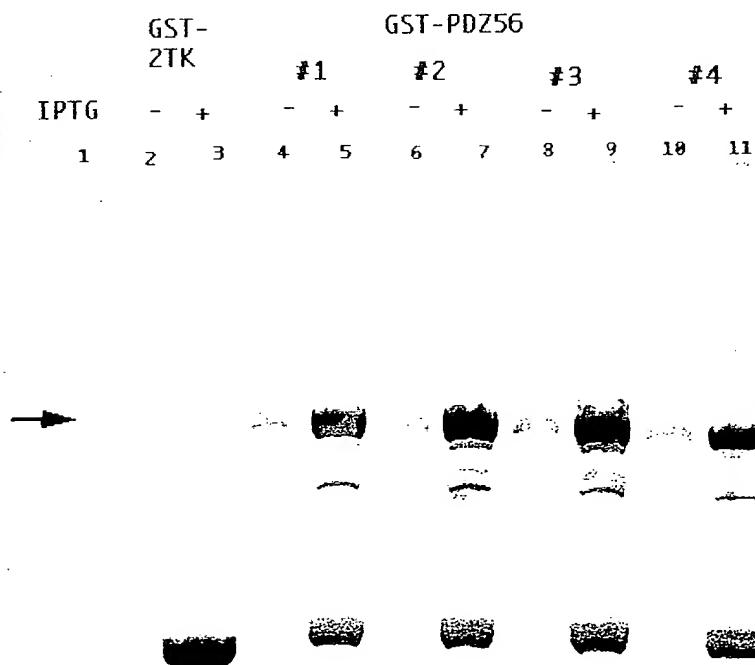


FIG. 10

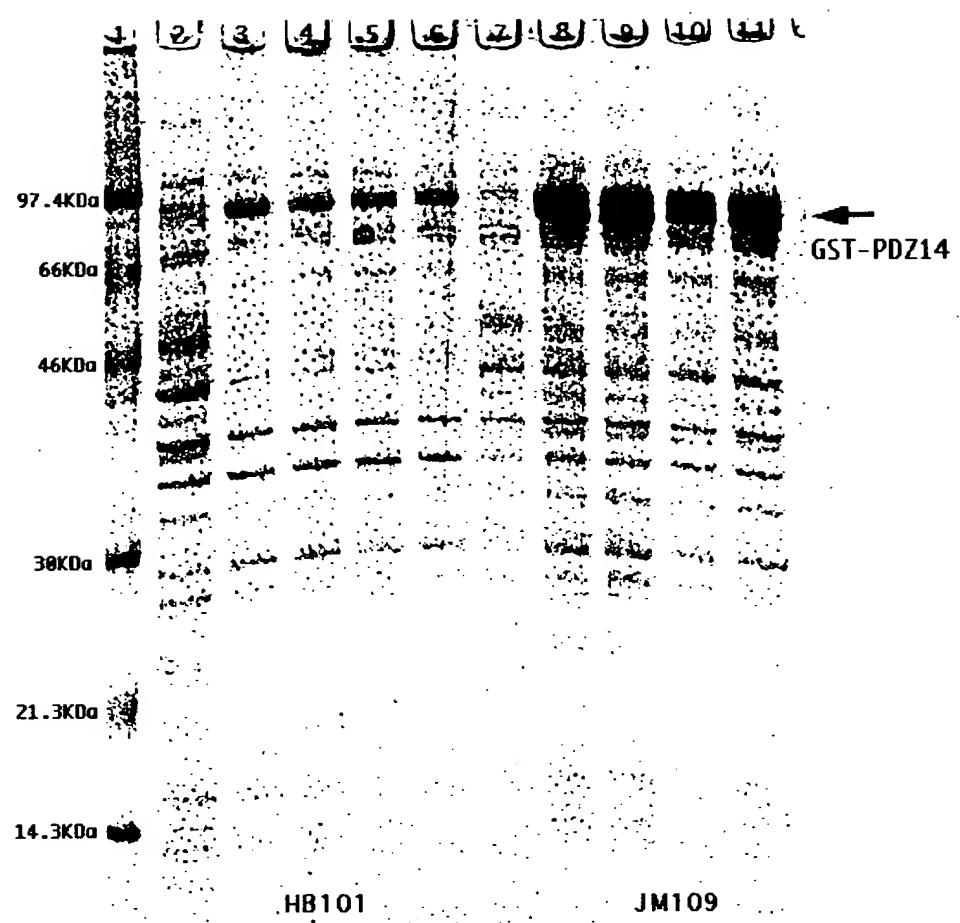


FIG. 11

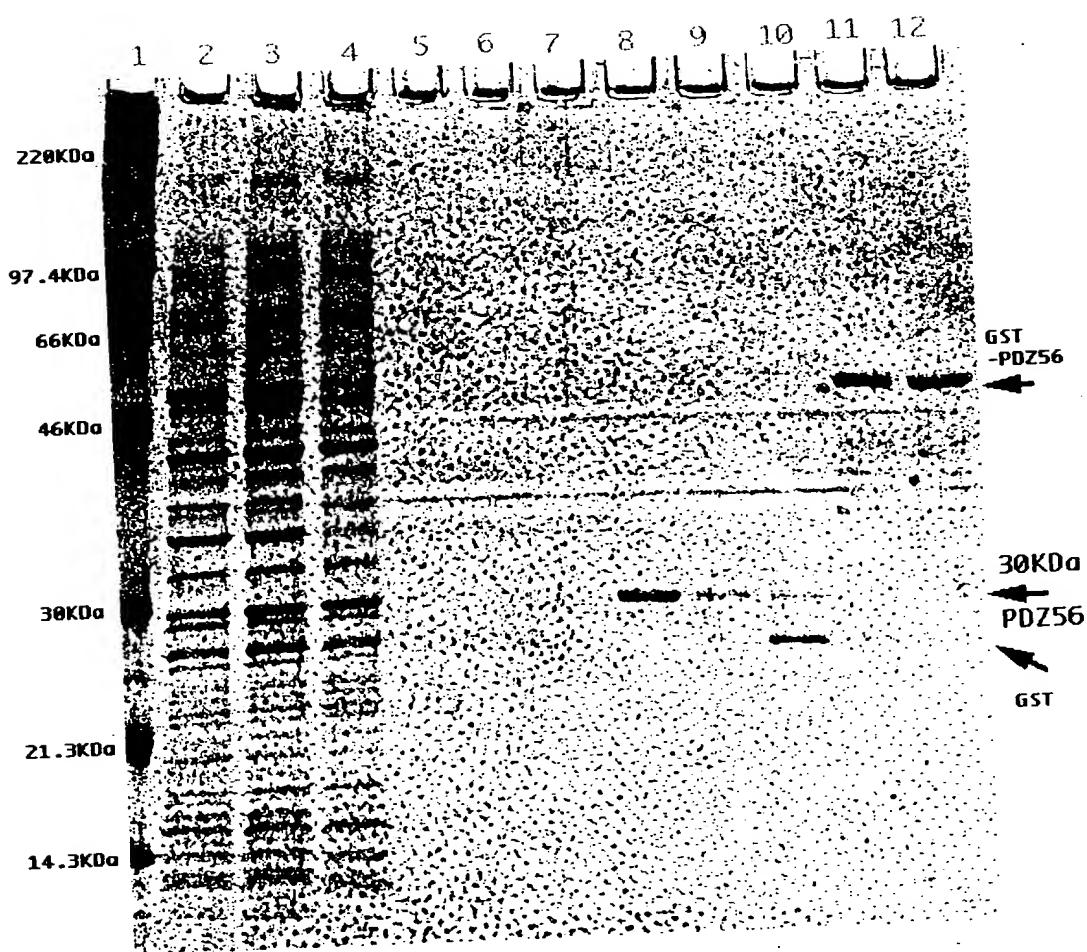


FIG. 12

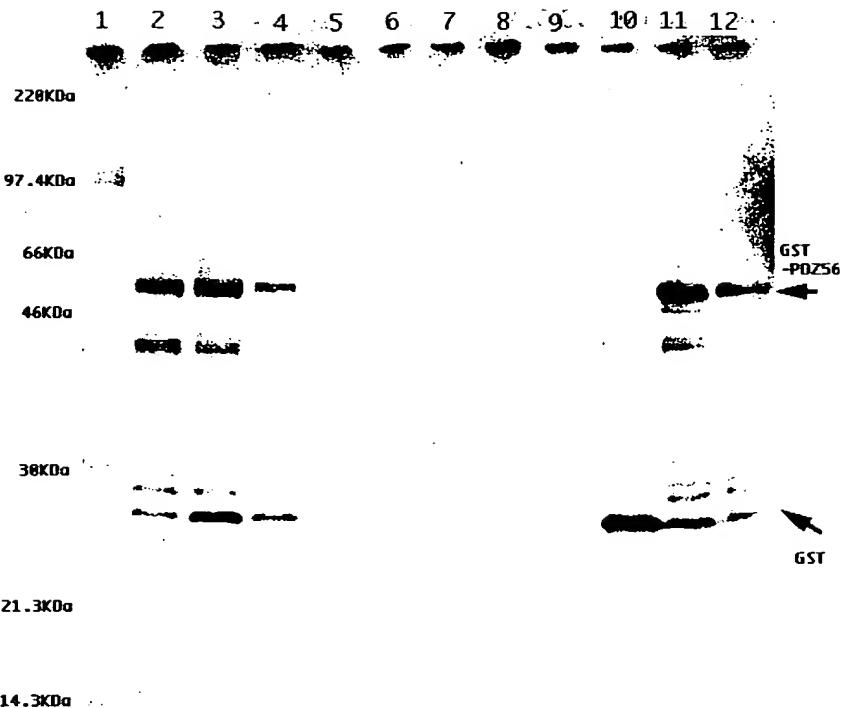


FIG. 13

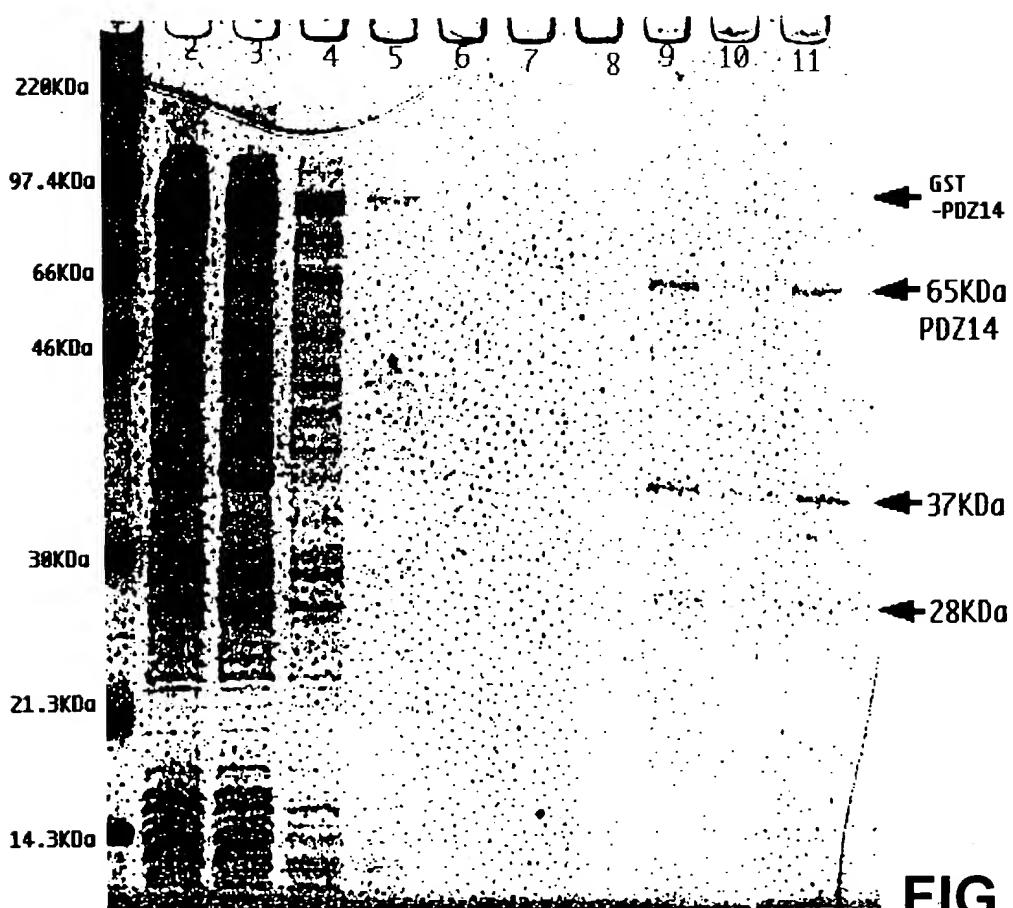


FIG. 14

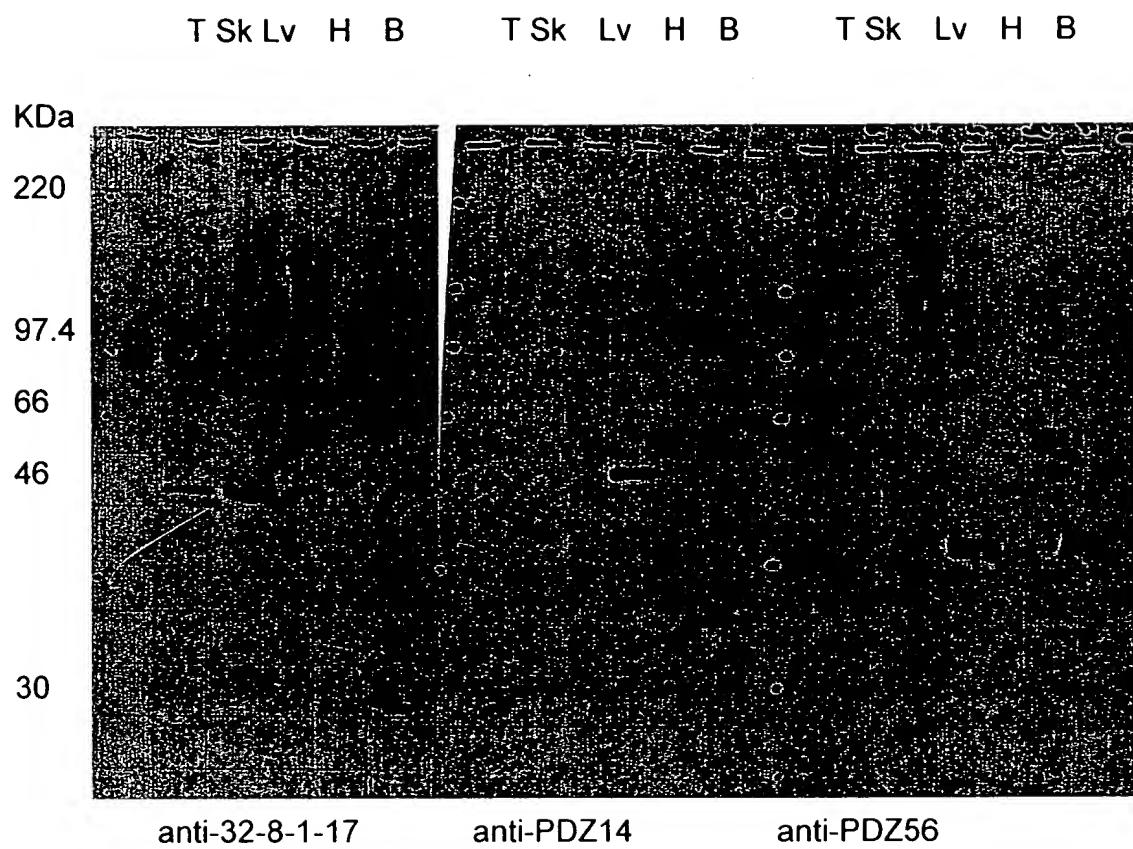


FIG. 15

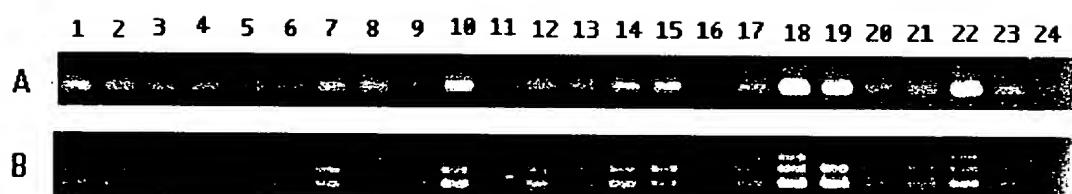


FIG. 16

1	TTCCTCTGT CCTACCGAT TCAGCTGAA AGCCCTCA GTACCTGCCT	50	F1750	TCCTCTGT CCTACCGAT TCAGCTGAA AGCCCTCA GTACCTGCCT	351	F1750	ATAAAGATA CTTATGCCC TCCAGAACAT TTGGAGAGT TCAAATAAG	400	
	F1850	TTCCTCTGT CCTACCGAT TCAGCTGAA AGCCCTCA GTACCTGCCT		F1850	ATAAAGATA CTTATGCCC TCCAGAACAT TTGGAGAGT TCAAATAAG		F1850	ATAAAGATA CTTATGCCC TCCAGAACAT TTGGAGAGT TCAAATAAG	
	F1950	TTCCTCTGT CCTACCGAT TCAGCTGAA AGCCCTCA GTACCTGCCT		F1950	ATAAAGATA CTTATGCCC TCCAGAACAT TTGGAGAGT TCAAATAAG		F1950	ATAAAGATA CTTATGCCC TCCAGAACAT TTGGAGAGT TCAAATAAG	
51		100			401				450
	F1750	GAACAGAGCT CCCTGGCTGC TAATGGCTAG TTGTCATTC TTCAATTGT		F1750	CTTGGGACAA CAATCTGAA GACTAATGCC ACTGGATATT TTTCCTCAT		F1750	CTTGGGACAA CAATCTGAA GACTAATGCC ACTGGATATT TTTCCTCAT	
	F1850	GAACAGAGCT CCCTGGCTGC TAATGGCTAG TTGTCATTC TTCAATTGT		F1850	CTTGGGACAA CAATCTGAA GACTAATGCC ACTGGATATT TTTCCTCAT		F1850	CTTGGGACAA CAATCTGAA GACTAATGCC ACTGGATATT TTTCCTCAT	
	F1950	GAACAGAGCT CCCTGGCTGC TAATGGCTAG TTGTCATTC TTCAATTGT		F1950	CTTGGGACAA CAATCTGAA GACTAATGCC ACTGGATATT TTTCCTCAT		F1950	CTTGGGACAA CAATCTGAA GACTAATGCC ACTGGATATT TTTCCTCAT	
101		150			451				500
	F1750	ATCTAAGAA TCTTTGAA GGACTTAAATTAATAGCAAA GGCATTCTTA		F1750	ACACTGGCAG AGACATTCCA GAATTAACAG AGCCAGAGAA GCGAGAGGCT		F1750	ACACTGGCAG AGACATTCCA GAATTAACAG AGCCAGAGAA GCGAGAGGCT	
	F1850	ATCTAAGAA TCTTTGAA GGACTTAAATTAATAGCAAA GGCATTCTTA		F1850	ACACTGGCAG AGACATTCCA GAATTAACAG AGCCAGAGAA GCGAGAGGCT		F1850	ACACTGGCAG AGACATTCCA GAATTAACAG AGCCAGAGAA GCGAGAGGCT	
	F1950	ATCTAAGAA TCTTTGAA GGACTTAAATTAATAGCAAA GGCATTCTTA		F1950	ACACTGGCAG AGACATTCCA GAATTAACAG AGCCAGAGAA GCGAGAGGCT		F1950	ACACTGGCAG AGACATTCCA GAATTAACAG AGCCAGAGAA GCGAGAGGCT	
151		200			501				550
	F1750	GCCTAGGAT GACAGTTAGT CCTATTAAG ATGGCTTGG CATTGCTGT		F1750	GAAGAAAGGG AACCTCAAA CACACCATAT ACCATTGGA ATCAGCCCCAG		F1750	GAAGAAAGGG AACCTCAAA CACACCATAT ACCATTGGA ATCAGCCCCAG	
	F1850	GCCTAGGAT GACAGTTAGT CCTATTAAG ATGGCTTGG CATTGCTGT		F1850	GAAGAAAGGG AACCTCAAA CACACCATAT ACCATTGGA ATCAGCCCCAG		F1850	GAAGAAAGGG AACCTCAAA CACACCATAT ACCATTGGA ATCAGCCCCAG	
	F1950	GCCTAGGAT GACAGTTAGT CCTATTAAG ATGGCTTGG CATTGCTGT		F1950	GAAGAAAGGG AACCTCAAA CACACCATAT ACCATTGGA ATCAGCCCCAG		F1950	GAAGAAAGGG AACCTCAAA CACACCATAT ACCATTGGA ATCAGCCCCAG	
201		250			551				600
	F1750	CGAACATTAA TCTATGCCC TCCATTAGT CGACATGCC GGATTCGCCT		F1750	CCGGCTGCAA CTCTGGAG AGCCAGAA ATCCCTAGGC ATCAGGATTC		F1750	CCGGCTGCAA CTCTGGAG AGCCAGAA ATCCCTAGGC ATCAGGATTC	
	F1850	CGAACATTAA TCTATGCCC TCCATTAGT CGACATGCC GGATTCGCCT		F1850	CCGGCTGCAA CTCTGGAG AGCCAGAA ATCCCTAGGC ATCAGGATTC		F1850	CCGGCTGCAA CTCTGGAG AGCCAGAA ATCCCTAGGC ATCAGGATTC	
	F1950	CGAACATTAA TCTATGCCC TCCATTAGT CGACATGCC GGATTCGCCT		F1950	CCGGCTGCAA CTCTGGAG AGCCAGAA ATCCCTAGGC ATCAGGATTC		F1950	CCGGCTGCAA CTCTGGAG AGCCAGAA ATCCCTAGGC ATCAGGATTC	
251		300			601				650
	F1750	TGGGACTGCC ATCTTGCTCA TTATGAGA GTCTACCAC AGTGTAACCA		F1750	TTCGGGACG AGGGATGGG AGTCGGCTAA GCAATGGAGA ATGCTATGCC		F1750	TTCGGGACG AGGGATGGG AGTCGGCTAA GCAATGGAGA ATGCTATGCC	
	F1850	TGGGACTGCC ATCTTGCTCA TTATGAGA GTCTACCAC AGTGTAACCA		F1850	TTCGGGACG AGGGATGGG AGTCGGCTAA GCAATGGAGA ATGCTATGCC		F1850	TTCGGGACG AGGGATGGG AGTCGGCTAA GCAATGGAGA ATGCTATGCC	
	F1950	TGGGACTGCC ATCTTGCTCA TTATGAGA GTCTACCAC AGTGTAACCA		F1950	TTCGGGACG AGGGATGGG AGTCGGCTAA GCAATGGAGA ATGCTATGCC		F1950	TTCGGGACG AGGGATGGG AGTCGGCTAA GCAATGGAGA ATGCTATGCC	
301		350			651				700
	F1750	ATGCCCAAGGC AGGAACATTC TTGAGAGAC ATTCTCTCAT TCCCCTGAC		F1750	GGCAATTTCATCA TCAACATGT TCTCGAACAT AGTCCAGCTG GCAAAATCC		F1750	GGCAATTTCATCA TCAACATGT TCTCGAACAT AGTCCAGCTG GCAAAATCC	
	F1850	ATGCCCAAGGC AGGAACATTC TTGAGAGAC ATTCTCTCAT TCCCCTGAC		F1850	GGCAATTTCATCA TCAACATGT TCTCGAACAT AGTCCAGCTG GCAAAATCC		F1850	GGCAATTTCATCA TCAACATGT TCTCGAACAT AGTCCAGCTG GCAAAATCC	
	F1950	ATGCCCAAGGC AGGAACATTC TTGAGAGAC ATTCTCTCAT TCCCCTGAC		F1950	GGCAATTTCATCA TCAACATGT TCTCGAACAT AGTCCAGCTG GCAAAATCC		F1950	GGCAATTTCATCA TCAACATGT TCTCGAACAT AGTCCAGCTG GCAAAATCC	

FIG. 17

	701		750
FH750	AACCTGAAA CCTGGACATA GAATCGTACA G		
FH850	AACCTGAAA CCTGGACATA GAATCGTACA GGTGGATGGA ATGGACCTCA		
FH950	AACCTGAAA CCTGGACATA GAATCGTACA GGTGGATGGA ATGGACCTCA		
	751		800
FH750			
FH850	GAGATCCAAG CCATGAACAA CCTGTGGAAG CCATTGGAA ACCAGGCAAC		
FH950	GAGATCCAAG CCATGAACAA CCTGTGGAAG CCATTGGAA ACCAGGCAAC		
	801		850
FH750			
FH850	CCTGTACTCT TTATGGTATA GAGCTTTATT ACAGACCAAG G		
FH950	CCTGTACTCT TTATGGTACA GAGCATTATA AACAGACCAA GGAAATCCCC		
	851		900
FH750			
FH850			
FH950	TTTGCCTTCC TTGCTGCACA ACCTTACCC TAAGTACAAC TTCAGCAGCA		
	901		950
FH750			GCACCCAGT
FH850			GCACCCAGT
FH950	CTAACCCATT TGCTGACTCT CTACAAATCA ACGCCGACAA GGCACCCAGT		
	951	965	
FH750	CACTCAGACT CACAG		
FH850	CACTCAGACT CACAG		
FH950	CACTCAGACT CACAG		

FIG. 18

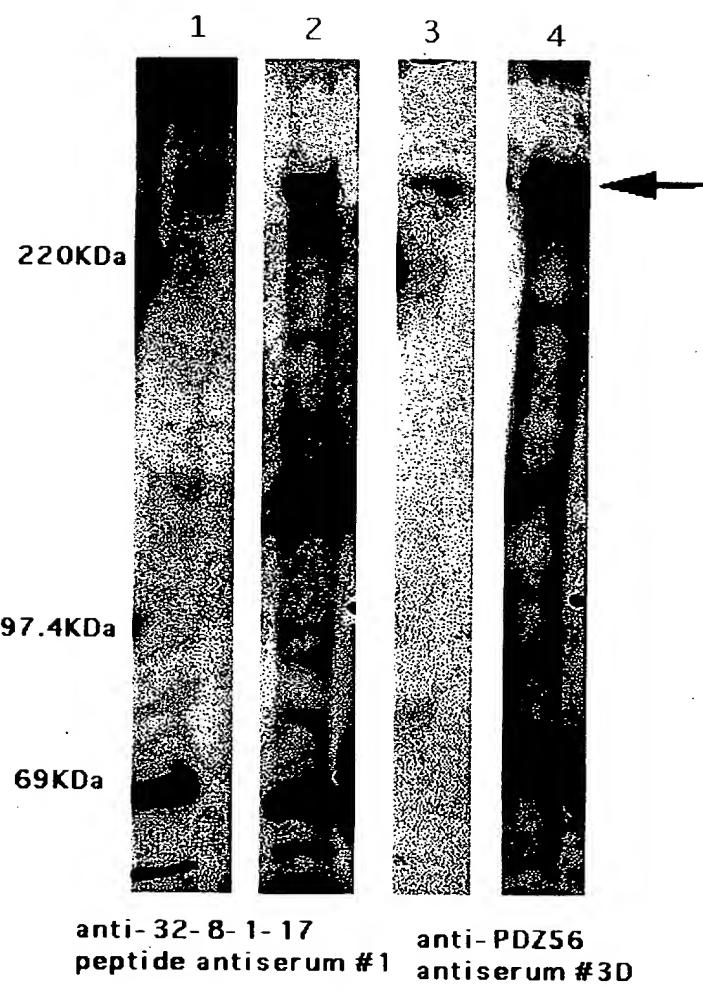


FIG. 19

1545 FISLKTAKATVYKLTIIAENPDSQAVPSAAAGASCEKKSSQSLMPQSG 1594
 :
 2 FISLKTAKATVYKLTIIAENPDSQAVPSAAAVTYSGERKDNSQTAVP ... 48

1595 SPEI'ESIRNTSRSSSTPAIFASDPATCPPIPGCETTIEISKRTGLSIV 1644
 . :
 49 APDLERIPSTSRSSTPAVFAFASDPATCPPIPGCETTIGVSKGQTGLSIV 98

1645 CGSDTLLGAFTHHEVEEGACKDCRLWAGDQILEYNGIDLRKATHDEAI 1694
 :
 99 CGSDTLLGAFTHHEVEEGACKDCRLWAGDQILEYNGIDLRKATHDEAI 148

1695 NVLRQTRPQRVRVLTLYRDEAPYKEEEDVCOTFTIE . LQKRPKGGLGLSIVC 1742
 :
 149 NVLRQTRPQRVRVTLYRDEAPYKEEEDVCOTFTIEQLQKRPKGGLGLSIVC 198

1743 KRNDTGTVFVSDIVKGCIADACRULWAGDQILWAGDVRNASEQEVAILL 1792
 :
 199 KRNDTGTVFVSDIVKGCIADACRULWAGDQILWAGDVRNASEQEVAILL 248

1793 KCSLGCVTLEVGRIAKGPFIISERRPSQTSPYSECSLSSFTPLSGSSTSE 1842
 :
 249 KCSLGCVTLEVGRIAKGPFIISERRPSQTSPYSESSFTPLSGSMTSE 298

1843 SLESSSKKNALASEIQLRRTVEIKKGPTUSLGSIAGGVGSPLGDVPIFI 1892
 :
 299 SLESNSKKNALASEIQLRRTVEIKKGPADSLGLSIAGGVGSPLGDVPIFI 348

1893 ALMIPNCVAAQTQKLRYCDRIVTICGTSTEQVNLLRNASCSEIEM 1942
 :
 349 ALMIPNCVAAQTQKLRYCDRIVTICGTSTEQVNLLRNASCSEIEM 398

FIG. 20

1618 ATCPPIPGCETTIEISKGRTGLGLSIVGGSOTLGLATIHEVYEGACK	1667	1668 DGRUWACQILEVNGIDLRKATIDEAINLRQTPQRVRLTLYRDEAPYKE	1717	1718 EEVCDTIELQKKPKGKGGLSIVWGRNDTGTVFSDIVKGGLADPDGRLI	1767	1768 QGDQILLVNGEDVRNMSQEAVWLLKCSLGTVTLEVRIKAGPFHSEREP	1817	1818 SQTSGVSEGSSLSFTPLSGSSTSELESSKRNALASEIQQLRTVEMK	1867	1868 GPTDSLGISIAGGVGSPLGDPVIFIAWMPTCMAQTQKLRGDRIVTC	1917	1919 GSTECMUTITQAVNLKMASGSIEMQVVAQCDWSVTGHQEPASSLSF	1967	1968 TGLTSTSJFQDNLGPQCKSITLERGPDGCLGFSIVGGYGSPIGDPYVK	2017	2019 GSTECMUTITQAVNLKMASGSIEMQVVAQCDWSVTGHQEPASSLSF	350
1 ATCPPIPGCETTIEISKGRTGLGLSIVGGSOTLGLATIHEVYEGACK	50	51 DGRUWACQILEVNGIDLRKATIDEAINLRQTPQRVRLTLYRDEAPYKE	100	101 EEVCDTIELQKKPKGKGGLSIVWGRNDTGTVFSDIVKGGLADADGRUL	150	151 QGDQILLVNGEDVRNATQEAVVWLLKCSLGTVTLEVRIKAGPFHSEREP	200	201 SQTSGVSEGSSLSFTPLSGSSTSELESSKRNALASEIQQLRTVEMK	250	251 GPTDSLGISIAGGVGSPLGDPVIFIAWMPTCMAQTQKLRGDRIVTC	300	251 GSTECMUTITQAVNLKMASGSIEMQVVAQCDWSVTGHQEPASSLSF	350	351 TGLTSTSJFQDNLGPQCKSITLERGPDGCLGFSIVGGYGSPIGDPYVK	400		
2068 VLS 2070		2068 VLS 2070		2068 VLS 2070		2068 VLS 2070		2068 VLS 2070		2068 VLS 2070		2068 VLS 2070		2068 VLS 2070			
401 TFAKGAASEDCRUKRGDQIIAVNCLEGVTHEAVAILKRTGTVTLW	450	401 TFAKGAASEDCRUKRGDQIIAVNCLEGVTHEAVAILKRTGTVTLW	500	401 TFAKGAASEDCRUKRGDQIIAVNCLEGVTHEAVAILKRTGTVTLW	550	401 TFAKGAASEDCRUKRGDQIIAVNCLEGVTHEAVAILKRTGTVTLW	600	401 TFAKGAASEDCRUKRGDQIIAVNCLEGVTHEAVAILKRTGTVTLW	650	401 TFAKGAASEDCRUKRGDQIIAVNCLEGVTHEAVAILKRTGTVTLW	700	401 TFAKGAASEDCRUKRGDQIIAVNCLEGVTHEAVAILKRTGTVTLW	750	401 TFAKGAASEDCRUKRGDQIIAVNCLEGVTHEAVAILKRTGTVTLW	800		

FIG. 21

FIG. 22

400 LEPSCIFKSIKSSAVBHDGRQICDQIIVADCTNLQGFTRQAVEVLR 449
 ||||||| :
 400 LEPSCIFKSIKSSAVBHDGRQICDQIIVADCTNLQGFTRQAVEVLR 449
 ||||||| :
 1 MLEIDKVRALIIMERQTKLKERDVADEKLSLKSVLQSPFLSQLS 50
 |||| :
 1 MLETIDKVRALQAERQSKLKERDVADEKLSLKSVLQSPFLSQLS 50
 |||| :
 51 LQTSVQQLKDQWNIATATSNIENWMPHISPAWPTLNQESALSPNG 100
 |||| :
 51 LQTSLQQLKDQWNTATATANDWHTPQFSSAIISSQESALSPNC 100
 |||| :
 101 NEALTEPCJPHINGPACDEFQKLMQWQPRWENTELIUPCGCGLC 149
 |||| :
 101 NEALISCPGAPPAMDGPACEELDQJKMSAQCRVIEFELLKRPCCGLC 150
 |||| :
 450 HICQTRMLTURRCRKAQEAEULMSREDYTKOADIPLVNASTIKENYED 499
 |||| :
 450 HICQTRVLTLURKGASEAEITSREDTAKDVLP.....AEYERDDE 492
 |||| :
 500 FLSSTRNLUYTTEEEGFLPLSAELEEEEDQKQEAALLTIVQRIMCINY 549
 |||| :
 493 SLSURRSSTSLPIEEEGFLPLSTEETEDVQ QEAALLTIVQRIMCINY 541
 |||| :
 550 EIWAIVSKRESENSGCGIISLEATVCHFIRTSVLPEGPVGHCSKLFSCDEL 599
 |||| :
 542 EIWAIVSKRESENSGCGIISLEATVCHFIRTSVLPEGPVGHCSKLFSCDEL 591
 |||| :
 600 FVNCITLCEVQDQWNLKEPLPIETWVCCARTVPTTQSELDSDLC 649
 |||| :
 592 FVNCITLCEVQDQWNLKEPLPIOTWVCCARTVPTTSEVDSDIH 641
 |||| :
 650 DIELTEPKHDLGEFIGSSEPEDPLAMTDAGSTEEVQPLAMEACIQ 699
 |||| :
 642 DIELTEPKHDLGEFIGSSETEDPLAMSDVDAEEQTPLAMEACIQ 691
 |||| :
 700 HMLEKGSKLGFSLDYPDIPASTVIIIRSLVPGIAEFDGRLLPCD 749
 |||| :
 742 AIELEGSRGEGFSIUDYOPDANTVIVIRSLVPGIAEFDGRLLPCD 741
 |||| :
 750 RLJFNDVNLNSLVEAWALKGAPSCTVRIGVAMPPLSPPEGVSAK 799
 |||| :
 741 RLJFNDVNLNSTLVEAWALKGAPSCTVRIGVAMPPLSPPEGVSAK 791
 |||| :
 300 DHUIXGTDLAGSSSEQVQLRQGGRVKLWARSATEEKTAPALCI 349
 |||| :
 301 DHUIXGTDLAGSSSEQVQLRQGGRVKLWARGAVEETPPASSLG 350
 |||| :
 350 TSSESPSTPEURDASTOKCEESSTFDVETLKVWGLCTIAGYICDKK 399
 |||| :
 351 TSSESPSTPEURDASTOKNEESETFDVETLKVWGLCTIAGYICDKK 399
 |||| :
 792 EMTPLCSHMTCMGLSDKALFRADIALJOTPDLSEVAESRPFSPDN 841

FIG. 23

FIG. 24

1

50

PDZ-A	RHVEVFELLK . PPSGGLGFS VVGLRS....	. ENRGEL.GI FVQEIQEGSV
PDZ-B	QHMETIEL.V . NDGSGLCFG IIGGK..... ATGV IVKTILPGGV
PDZ-C	SETFDVELTK . N. VQGLGIT IAGYIG....	. DKKLEPSGI FVKSITKSSA
PDZ-D	YEIVVAHVSK FSENSGLGIS LEATVGHH.. FIRSVLPEGP
PDZ-E	AGIQHIMLEK . G. SKGLGFS ILDYQD....	. PIDPASTVI IIRSLVPGGI
PDZ-F	SFERTINIAK . G. NSSLGMT VSANKDGL.. GM IVRSIIHGGA
PDZ-G	NQPRRVELWR . EPSKSLGIS IVGGRGMGSR LSNGEVMRGI FIKHVLEDRP	
PDZ-H	GELHMIELEK . G. HSGLGLS LAG.....	. NKDRSRMSV FIVGIDPNGA
PDZ-I	KNVQHLELPK . D. QGGLGIA IS.....	.. EEDTLSGV IIKSLTEHGV
PDZ-J	GCETTIEISK . G. RTGLGLS IVG.....	.. GSDTLLGAF IIHEVYEEGA
PDZ-K	CDTLTIELQK . KPGKGLGLS IVGKRN.... DTGV FVSDIVKGGI
PDZ-L	QGLRTVEMKK . GPTDSLGIS IAGGVG....	. SPLGDV.PI FIAMMHPTGV
PDZ-M	PQCKSITLER . GP. DGLGFS IVGGYG....	. SPHGDL.PI YVKTVFAKGA

51

97

PDZ-A	AHRDGRLKET DQILAINGQA LDQTITHQQA ISILQAKDT VQLVIAR	
PDZ-B	ADQHGRLCSG DHILKIGDTD LA. GMSSEQV AQVLRQCGNR VKLMIAR	
PDZ-C	VEHDGRIQIG DQIIAVDGTN L. QGFTNQQA VEVLRHTGQT VLLTLMR	
PDZ-D	VGHSGKLFGS DELLEVNGIT LL. GENHQDV VNILKELPIE VTMVCCR	
PDZ-E	AEKDGRLLPG DRIMFNDVN L. ENSSLEEA VEALKAPSG TVRIGVA	
PDZ-F	ISRDGRIAIG DCILSINEES TI. SVTNAQA RAMLRRHSLI GPDIKIT	
PDZ-G	AGKNGTLKPG DRIVEVDGMD LRD. ASHEQA VEAIRKAGNP VVFMVQS	
PDZ-H	AGKDGRQLQIA DELLEINGQI L. YGRSHQNA SSIICKAPSK VKIIFIR	
PDZ-I	AATDGRLKVG DQILAVDDEI V. VGYPIEKF ISLLKTAKMT VKLTIHA	
PDZ-J	ACKDGRLWAG DQILEVNGID L. RKATHDEA INVLRQTPQR VRFLTLYR	
PDZ-K	ADPDGRLIQG DQILLVNGED VR. NASQEAV AALLKCSLGT VTLEVGR	
PDZ-L	AAQTQKLRVG DRIVTICGTS T. EGMTHTQA VNLLKNASGS IEMQVVA	
PDZ-M	ASEDGRLKRG DQIIAVNGQS L. EGVTHEEA VAILKRTKGT VTLVMLS	

FIG. 25

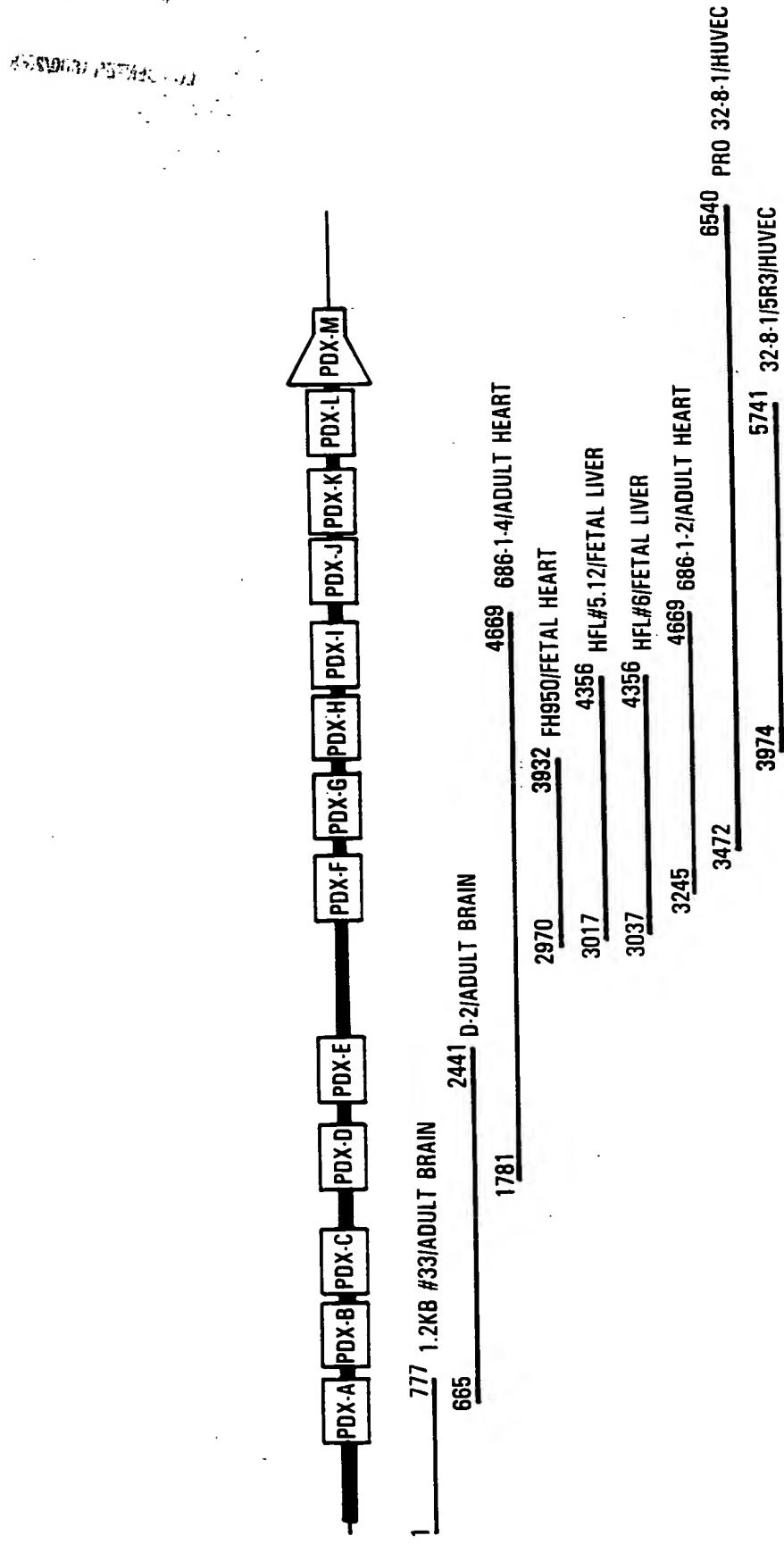


FIG. 26